Table 3. Evaluation of TracMyAir Automated Inputs for Nearest Outdoor Air Pollution Monitors and Weather Station

User location (city, county)	TracMyAir: nearest PM <sub>2.5</sub> , ozone monitors, weather station (distance) <sup>1,2</sup>	Google Earth: measured distance to PM <sub>2.5</sub> , ozone monitors <sup>2</sup>				Google Earth: measured distance to weather stations <sup>2</sup>	
		Armory	Millbrook	RTP	RDU (no ozone)	KRDU	KTDF
Hillsborough, Orange County	PM <sub>2.5</sub> : Armory (19 km) Ozone: Armory (19 km) Weather: KTDF (23 km)	19 km*	52 km	29 km	34 km	35 km	23 km*
Central Durham, Durham County	PM <sub>2.5</sub> : Armory (1 km) Ozone: Armory (1 km) Weather: KRDU (19 km)	1 km*	34 km	13 km	17 km	19 km*	33 km
South Durham, Durham County	PM <sub>2.5</sub> : RTP (1 km) Ozone: RTP (1 km) Weather: KRDU (8 km)	13 km	27 km	1 km*	5 km	8 km*	46 km
Raleigh, Wake County	PM <sub>2.5</sub> : Millbrook (6 km) Ozone: Millbrook (6 km) Weather: KRDU (17 km)	32 km	6 km*	24 km	19 km	17 km*	62 km
Morrisville, Wake County	PM <sub>2.5</sub> : RDU (6 km) Ozone: RTP (10 km) Weather: KRDU (7 km)	21 km	23 km	10 km**	6 km*	7 km*	55 km
Chapel Hill, Orange County	PM <sub>2.5</sub> : RTP (16 km) Ozone: RTP (16 km) Weather: KRDU (25 km)	17 km	44 km	16 km*	22 km	25 km*	43 km

<sup>&</sup>lt;sup>1</sup> Determined by TracMyAir

<sup>&</sup>lt;sup>2</sup> Distance is Euclidean distance from user location to location of air pollution monitors and weather stations

<sup>\*</sup> Indicates nearest air pollution monitors and weather stations for each user location

<sup>\*\*</sup> Indicates second nearest air pollution monitor to obtain ozone measurements

Table 4. Sensitivity Analysis of TracMyAir Outputs for Six Different Input Scenarios

Model inputs	Input scenarios	Model outputs	Effects on exposure metrics
Weather	Summer vs. winter	Summer: AER = 0.11 h <sup>-1</sup> , Winter: AER = 0.28 h <sup>-1</sup>	Higher AER in winter
Home windows	Closed vs. open windows	Closed: AER = 0.19 $h^{-1}$ , $F_{inf\_home}$ = 0.39, 0.05 (PM <sub>2.5</sub> , ozone) Open: AER = 0.94 $h^{-1}$ , $F_{inf\_home}$ = 0.69, 0.20 (PM <sub>2.5</sub> , ozone)	Higher AER, $F_{\inf\_home}$ when opening windows
Home window fans	None vs. operating window fans	None: AER = 0.19 h <sup>-1</sup> , $F_{inf\_home}$ = 0.39, 0.05 (PM <sub>2.5</sub> , ozone) Operating: AER = 1.30 h <sup>-1</sup> , $F_{inf\_home}$ = 0.72, 0.25 (PM <sub>2.5</sub> , ozone)	Higher AER, F <sub>inf_home</sub> when operating window fan
Home air cleaners	None vs. operating air cleaners	None: $F_{inf\_home} = 0.39, 0.05 \text{ (PM}_{2.5}, \text{ ozone)}$ Operating: $F_{inf\_home} = 0.09, 0.05 \text{ (PM}_{2.5}, \text{ ozone)}$	Lower F <sub>inf_home</sub> for PM <sub>2.5</sub> wher operating air cleaner
Microenvironments	Short vs. long time spent outdoors	Short time: Exposure = $5.0 \mu\text{g/m}^3$ , $1.65 \text{ppb}$ (PM <sub>2.5</sub> , ozone) Long time: Exposure = $6.5 \mu\text{g/m}^3$ , $6.54 \text{ppb}$ (PM <sub>2.5</sub> , ozone)	Higher exposure when longer time spent outdoors
Physical activities	Low vs. high physical activity	Low activity: Dose = 35.7 $\mu$ g/m², 43.5 $\mu$ g/m² (PM <sub>2.5</sub> , ozone) High activity: Dose = 59.4 $\mu$ g/m², 115.5 $\mu$ g/m² (PM <sub>2.5</sub> , ozone)	Higher dose when higher physical activity